



FIELD OVERSIGHT SUMMARY REPORT
ACS NPL SITE
GRIFFITH, INDIANA

June 27, 2000

USEPA/ARCS V
BVSPC Oversight Summary

Reporting Period June 27, 2000 Hours Worked: 26
Site Name/Location: ACS/Griffith, IN BVSPC Project No.: 46518.238
USEPA Work Assignment Manager: Kevin Adler, RPM Site Manager: Steve Mrkvicka

Personnel Summary Affiliation	No. of Personnel	Responsibility
Lee Orsorz, Montgomery Watson, Addison, IL	1	Respondent's General Contractor
Chad Smith, Rudy Stein, Montgomery Watson, Addison, IL	2	Field Sampling Crew (for quarterly groundwater sampling)
Chad Gailey, Black & Veatch Special Projects Corp, (BVSPC)	1	USEPA Oversight Contractor

Summary of field activities:

During the week of June 27, 2000, Montgomery Watson conducted quarterly groundwater sampling at the American Chemical Services (ACS) Site. One Montgomery Watson field sampling crew collected samples from monitoring wells that lie north, south, and east of the ACS facility. BVSPC's one-man crew conducted oversight of the field activities to ensure that proper sampling techniques were conducted. The specified operating procedure (SOP) for low flow groundwater sampling was adhered to by the sampling team. The BVSPC representative was tasked to collect split samples if the sampling technique differed from the SOP. BVSPC oversaw Montgomery Watson's sample paperwork procedures and decontamination set-up and routine.

Montgomery Watson collected four groundwater samples from monitoring wells MW9R, MW10C, MW48, and MW49, and duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and field equipment rinsate blanks. The field logbook notes on the monitoring well sampling event are attached to this report. Montgomery Watson used the low flow sampling technique and monitored for stability of the following groundwater parameters: pH, specific conductance, and temperature. Groundwater turbidity was also monitored and samples were collected when three consecutive parameter readings were within 10 percent of the previous readings or less than 10 nephelometric units (NTU's).

One equipment rinsate blank was collected by Montgomery Watson to ensure that proper

decontamination procedures yielded clean sampling equipment.

BVSPC noted problems with the tubing used to sample the groundwater. Numerous kinks were created installing and extracting the pump during sampling that hindered groundwater flow. The proper well logs as needed for reference were not available.

On April 25, and June 5, 2000 Montgomery Watson conducted Oxygen Releasing Compound (ORC) sampling for natural attenuation in the area north of the ACS site. Montgomery Watson's field crew consisted of Rudy Stein on April 25 and June 5 sampling events. BVSPC provided oversight to ensure proper field procedures were followed. The work plan presented by Montgomery Watson was adhered to by all field crewmembers. The piezometers sampled by Montgomery Watson are listed in the field logbook notes, which are attached to this report.

Signature: Chad Gailey

Date: July 26, 2000



Site: American Chemical Services, Inc.

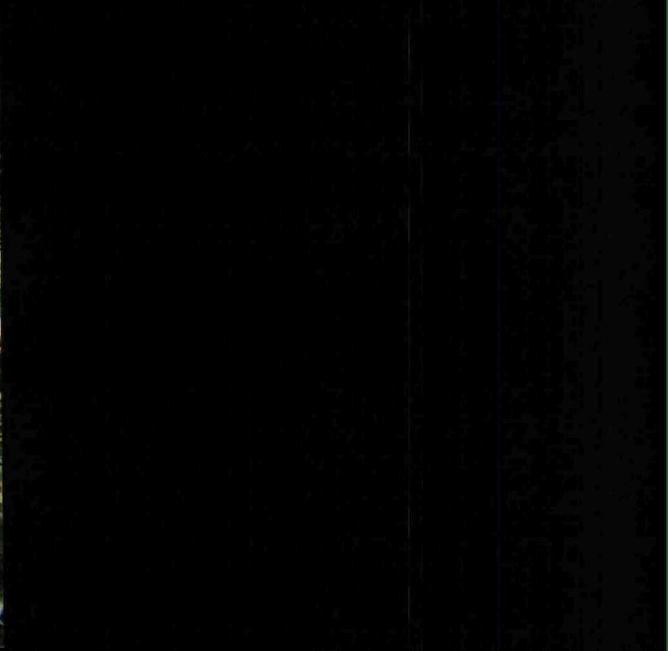
Proj. #: 46517/46518

Roll: 1 Photo #1

Date: 06-27-00 Time: 08:13

Photographer: Chad Gailey

Description: Photo facing west at the water treatment building of Rudy Stein decontaminating the pump and pumping equipment.



{Site: American Chemical Services, Inc.

{Proj. #: 46517/46518

{Roll: 1 Photo #:2

{Date: 06-27-00 Time: 09:13

{Photographer: Chad Gailey

{Description: Photo facing South at MW9R of
Rudy Stein and Chad Smith
connecting the pump to the
dedicated tubing.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 3

Date: 06-27-00 Time: 10:15

Photographer: Chad Gailey

Description: Photo facing northwest at MW9R
of Chad Smith filling a 40ml
VOA vial for VOCs.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 5

Date: 06-27-00 Time: 11:20

Photographer: Chad Gailey

Description: Photo facing Northeast at MW10C of
Rudy Stein and Chad Smith installing
pump with dedicated tubing.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 6

Date: 06-27-00 Time: 11:46

Photographer: Chad Gailey

Description: Photo facing Southeast at
MW10C of Chad Smith filling a
40ml VOA vial for VOCs.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:7

Date: 06-27-00 Time: 12:00

Photographer: Chad Gailey

Description: Photo facing North at the back of
the van near MW10C of Rudy Stein
decontaminating the pump
and pumping equipment.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 8

Date: 06-27-00 Time: 13:20

Photographer: Chad Gailey

Description: Photo facing south at MW48 of Rudy Stein setting the purge volume with the Grundfos controller



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 9

Date: 06-27-00 Time: 13:48

Photographer: Chad Gailey

Description: Photo facing southwest at MW48
of Chad Smith and Rudy Stein
collecting a VOC sample in a
40ml VOA vial..



{Site: American Chemical Services, Inc.

]Proj. #: 46517/46518

]Roll: 1 Photo #:10

]Date: 06-27-00 Time: 15:04

]Photographer: Chad Gailey

]Description: Photo facing west at MW49 of
Chad Smith and Rudy Stein
collecting a VOC sample in a
40ml VOA. vial



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #:11

Date: 06-27-00 Time: 15:24

Photographer: Chad Gailey

Description: Photo facing north at the water treatment building of Rudy Stein decontaminating the sampling equipment.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 12

Date: 06-27-00 Time: 15:40

Photographer: Chad Gailey

Description: Photo facing north at the water treatment building of Rudy Stein pulling a field blank.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 13

Date: 06-27-00 Time: 15:45

Photographer: Chad Gailey

Description: Photo facing northwest at water
treatment building of Chad Smith
filling out sample tags.

(42)

Chad Saly

06/05/2000

17:00

mob Back to WTB Dump purge water
TAKE Field Blank, Plus MEASURING
SURROUNDING wells.

214 Conc Turb DO Temp ORP Cdl
6.72 0.41 420 1.4 12.6 -96 .5
FINAL PARAMETER @ PZ-2.

ALL wells ARE SECURE w/ LOCK AND
RETURNED TO SAME CONDITION. ALL
PURGE WATER WAS CONTAINERIZED AND
DISPOSED OF INSIDE THE WATER TREATMENT
BUILDING.

17:12

MW48 DTW = 4.08.

17:20

measured Staff Gauge 3.09

17:30

measured Piezometer 81 4.45 DTW

17:35

measured Piezometer 28 11.88

18:00

Picture #11 Facing NORTH @ WTB
of Rely Stem Pulling Field Blank -

Chad Saly
06/05/2000

Chad Saly

06/26/00

9:00 ARRIVED ON SITE, WEATHER, OVERCAST,

~78°F, HUMIDE, w/ SOME RAIN.

Activities: QUARTERLY GROUNDWATER
SAMPLING EVENT, SHORT ROUND.

PRESENT ARE THE FOLLOWING FROM MW:

Dawn Dougherty

9:37 TALK to Dawn Dougherty @ P-106.

SHE WAS HAVING TROUBLE LOCATING
THE OTHER PIEZOMETER.

Lonny Boring MW

Scott Sherman MW

Chad Smith MW

Rudy Stien MW

10:35 TALK w/ Chad Smith MW44, SAID THING
MOVING SLOW w/ WATER ELEVATION
SO HIGH AND EVERYTHING OVER
GROWN

11:40 CALL STEVE MRKVICKA, RESERVE
WADERS FOR TOMORROW.

12:37 Chad Smith + Scott St. Simon NKE
MEASURE THE NEST @ MW48.

13:25 Dawn Dougherty @ NORTH END
OF THE ACS facility ground

Chad Saly

(44)

Chad Sief 06/26/2000

13:30 LUNCH

14:06 Lenny Boring @ South Farm Field
measuring MW45, MW15,

15:23 Chad Smith is trying to find STAFF
GAGE ON NORTH WEST SIDE OF
THE SITE ALONG THE RAIL ROAD
TRACKS:

14:05 LEAVE SITE

~~Chad Sief
06/26/2000~~

(45)

Chad Sief 06/27/2000

6:30 ARRIVE ON SITE, WEATHER: TEMP
59°F (HRRADIO), Light Breeze 0-2 NOT
VARIABLE, SUNNY CLEAR

Activities TODAY FINISH MEASURING
WELLS, PIEZOMETER, STAFF GAGES, Sample
wells MW45, 49, 10C + 9R.

PRESENT ARE THE FOLLOWING:

Chad Smith MW

Rudy Stien MW

7:00 Chad + Rudy ARRE, START SETTING UP
TO COMPLETE THE GROUNDWATER LEVELS AND
Sample the wells.

8:13 PICTURE #1 RdE #1 FACING WEST @
THE WATER TREATMENT Building (WTB) of
Rudy Stien DECONTAMINATING THE pump
Electrical supply CORD, AND CONNECTING TUBING
Before Sampling BEGINS.

8:17 Chad Smith RETURNS FROM MEASURING well
+ PIEZOMETERS IN THE SWAMP WEST OF
THE WTB.

8:35 Rudy Stien is MEASURING ATM 4D
INSIDE THE ACS Facility FENCE LINE

8:56 Mobilizing TO MW9R

Chad Sief

(46)

9:09

Chuck Galy

06/27/2008

ARRIVE @ MW9R SETTING UP TO
Sample This will be a MS/MSD SAMPLE.
We will be filling the following CONTAINERS
9 40ml VOA for BTEX.

9:13

3 500ml Poly for ARSENIC + METALS,
PICTURE #2 Role 1 FACING South @
MW9R OF Rudy Stein + Chad Smith
CONNECTING THE Pump TO THE DEDICATED
TUBING.

9:18

MEASURING WATER FOR DRAW DOWN. Initial
DTW = 15.6, STARTED PURGING, AND
USING @ HORIBA U22 FOR WATER
Quality PARAMETERS.

FINAL PARAMETERS W/IN 10% OF EACH OTHER
pH Conc Turb DO Temp ORP gpd
6.55 0.095 989.00 00.00 14.15 -175 5.4

10:08

10:15

SAMPLE TIME.

PICTURE #3 Role #1 FACING NW @ MW9R
OF Chad Smith, filling a VOA for
VOLs

Pictur# 4 DISREGARD. Shut Pockets

10:33

10:40

10:50

Rudy Stein is DECONNING pump.

moving TO 10C (MW10C)

Chad Smith + Rudy Stein will take
AN AIR SAMPLE FIRST, The WATER Sample.

Chuck Galy

(47)

Chuck Galy

06/27/2008

10:54

CHAD SMITH + RUDY STEIN ARE hooking up the
PRESSURE VALVE TO THE AIR TANK.

11:14

AIR Sampling will NOT happen today.
THE UNIT WAS SENT OUT W/ A BROKEN
FITTING.

THIS WELL HAS A DISTICT ETHER ODER.

11:20

PICTURE #5 Role #1 FACING NE @
MW10C. OF Rudy + Chad INSTALLING
Pump W/ DEDICATED TUBBING.

Chad is TAKING initial DTW 14.21
TO MONITORE DRAW DOWN.

11:23

START PURGING well MW10C.

11:40

WATER Quality PARAMETER ARE W/IN 10%
FINAL PARAMETERS ARE THE FOLLOWING
pH Conc Turb DO Temp ORP gpd
6.65 .161 128 0 14.74 -128 207

DTW is 14.28, NO DRAW DOWN.

11:45

START Sampling. DISCONNECTED WATER
Quality METER

11:46

PICTURE #6 Role #1 FACING SE @
MW10C OF Chad Smith filling a VOA.

11:51

MW10C IS LOCKED + SECURE.

11:55

DECONNING Pump

12:00

PICTURE #7 Role #1 FACING N @ Back
OF VAN NEAR MW10C OF Rudy DECONNING Pump

Chuck Galy

48

Chad Lacey 06/27/00

- 12:35 Mobing To MW 48
 12:47 SETTING up ON MW 48.
 13:17 START PURGING WELL MW 48.
 13:20 PICTURE #8 Role 1 FACING South
 @ MW 48 OF RUDY STIEN
 SETTING PURGE VOLUME.
 INITIAL DTW 3.98.
 13:35 FINAL PARAMETERS ARE WITH TEN %
 pH Cond Turb DO Temp ORP GAC
 651 800 23.7 OD 14.75 -118 2.9
 13:45 Sample Time, DISCONNECTING WATER
 Quality meter for Sampling.
 13:48 PICTURE #9 Role 1 FACING SW @
 MW 48 OF Chad & Rudy Collecting
 Samples in 40 ml VOA
 DTW 3.4.98 FINAL Reading
 13:50 DECONNING Pump For NEXT Sample
 Round.
 13:55 mobilizing to MW 49.
 14:05 SETTING up ON MW 49
 DTW 4.26 INITIAL.
 14:28 DTW 4.36
 Final Parameter @ MW 49.
 pH Cond Turb DO Temp ORP GAC
 559 19.4 10 3.01 14.65 111 5.1

Chad Lacey

49

Chad Lacey 06/27/00

- 15:00 DISCONNECTED WATER Quality METER.
 THE SAMPLE @ MW 49 is A
 Duplicate.
 15:04 PICTURE #10 Role 1 FACING WEST
 @ MW 48 OF Chad Smith Rudy Stien
 Filling @ VOA. 40ml.
 15:20 DECONNING Equipment BEFORE pulling
 Field Blank.
 15:24 PICTURE #11 Role 1 FACING South @
 WTB OF RUDY STIEN DECONNING
 EQUIPMENT.
 15:40 PICTURE #12 Role 1 FACING NORTH
 @ WTB OF RUDY STIEN Pulling A
 Field Blank.
 15:45 PICTURE #13 Role 1 FACING NW
 @ WTB OF Chad Smith Filling out
 EPA SAMPLE TAGS.
 All Sampling Procedures were followed
 MINOR Difficulties w. NON EXCESSIVE
 PIEZOMETER DURING WELL MEASURE
 MENT, LIST ON the MW MASTER LIST.
 All wells were SAMPLED for INDICATOR
 PARAMETERS. (MW 9R, MW 10C, MW 48,
 + MW 49).

Not
EPA

Chad Lacey



Site: American Chemical Services, Inc.

Project: 46518

Photo: 1

Date: 4-25-00

Time: 08:45

Photographer:

Jay Basso

Description:

Photo facing south of Rudy Stein
recording groundwater level at
ORC PZ5.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 2

Date: 4-25-00 Time: 09:22

Photographer: Jay Basso

Description: Photo facing north of Rudy Stein
recording water quality parameters
at ORC PZ7.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 3

Date: 4-25-00 Time: 09:53

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ7.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 4

Date: 4-25-00 Time: 10:25

Photographer: Jay Basso

Description: Photo of Rudy Stein recording
water quality parameters at ORC
PZ8.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 5

Date: 4-25-00 Time: 10:42

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ8.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 6

Date: 4-25-00 Time: 11:05

Photographer: Jay Basso

Description: Photo of Rudy Stein recording
water quality parameters at ORC
PZ6.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 7

Date: 4-25-00 Time: 11:15

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ6.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 8

Date: 4-25-00 Time: 12:00

Photographer: Jay Basso

Description: Photo of Rudy Stein recording
water quality parameters at ORC
PZ5 facing southwest.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 9

Date: 4-25-00 Time: 12:12

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ5.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 10

Date: 4-25-00 Time: 14:20

Photographer: Jay Basso

Description: Photo of Rudy Stein recording
water quality parameters at ORC
PZ1.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 11

Date: 4-25-00

Time: 14:40

Photographer:

Jay Basso

Description:

Photo of Rudy Stein collecting
groundwater sample from ORC
PZ1.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 12

Date: 4-25-00 Time: 15:05

Photographer: Jay Basso

Description: Photo facing west of Rudy Stein
recording water quality parameters
at ORC PZ3.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 13

Date: 4-25-00 Time: 15:30

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ3.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 14

Date: 4-25-00 Time: 16:03

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ4.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 15

Date: 4-25-00 Time: 16:10

Photographer: Jay Basso

Description: Photo of Rudy Stein deconning
peristaltic pump.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 16

Date: 4-25-00 Time: 16:10

Photographer: Jay Basso

Description: Photo of Rudy Stein deconning
peristaltic pump.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 17

Date: 4-25-00 Time: 16:20

Photographer: Jay Basso

Description: Photo of Rudy Stein recording
water quality parameters at ORC
PZ2.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 18

Date: 4-25-00 Time: 16:42

Photographer: Jay Basso

Description: Photo of Rudy Stein collecting
groundwater sample from ORC
PZ2.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 1

Date: 06-05-00 Time: 10:49

Photographer: Chad Gailey

Description: Photo facing north at ORC PZ-7
of Rudy Stein filling 40ml VOA
vial for natural attenuation
parameters.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 2

Date: 6-5-00

Time: 11:27

Photographer:

Chad Gailey

Description:

Photo facing northwest of Rudy
Stein collecting groundwater
quality parameters.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 3

Date: 6-5-00

Time: 11:43

Photographer:

Chad Gailey

Description:

Photo facing northeast at ORC
PZ8 of Rudy Stein recording
depth to water.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 4

Date: 06-05-00 Time: 12:16

Photographer: Chad Gailey

Description: Photo facing east at ORC PZ-8 of
Rudy Stein filling 40ml VOA vial
for natural attenuation parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 5

Date: 06-05-00 Time: 12:48

Photographer: Chad Gailey

Description: Photo facing southeast at ORC
PZ-5 of Rudy Stein filling 40ml
VOA vial for natural attenuation
parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 6

Date: 06-05-00 Time: 15:05

Photographer: Chad Gailey

Description: Photo facing north at ORC PZ-1
of Rudy Stein filling 40ml VOA
vial for natural attenuation
parameters.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 7

Date: 6-5-00

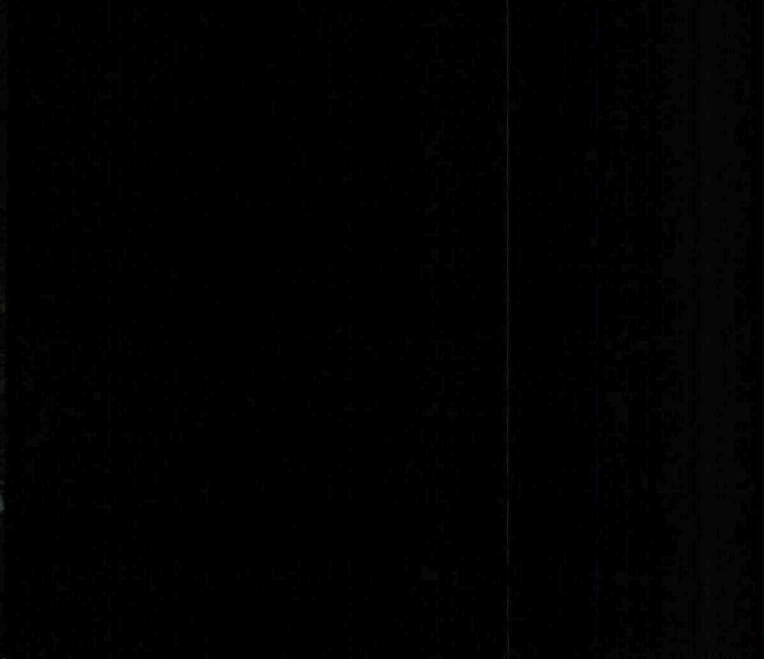
Time: 15:20

Photographer:

Chad Gailey

Description:

Photo facing northwest at the van
of Rudy Stein decontaminating
the pumping equipment.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 8

Date: 06-05-00 Time: 15:49

Photographer: Chad Gailey

Description: Photo facing east at ORC PZ-3 of
Rudy Stein filling 40ml VOA vial
for natural attenuation parameters.



Site: American Chemical Services, Inc.

Proj. #: 46517/46518

Roll: 1 Photo #: 9

Date: 06-05-00 Time: 16:21

Photographer: Chad Gailey

Description: Photo facing north at ORC PZ-4
of Rudy Stein filling 40ml VOA
vial for natural attenuation
parameters.



S Site: American Chemical Services, Inc.

P Proj. #: 46517/46518

P Roll: 1 Photo #: 10

L Date: 06-05-00 Time: 16:50

P Photographer: Chad Gailey

L Description: Photo facing east at ORC PZ-2 of
Rudy Stein filling 40ml VOA vial
for natural attenuation parameters.



Site: American Chemical Services, Inc.

Project: 46518

Photo: 11

Date: 6-5-00

Time: 18:00

Photographer:

Chad Gailey

Description:

Photo facing north at the
groundwater treatment building of
Rudy Stein pulling field blank.

(32) 4/25/00 J.B.

- 715 Arrive on-site. Sunny. has 60s today.
- 725 R. Stein arrives on-site. He will be collecting GW samples from ORC wells.
- 830 R. Stein has completed equipment decontamination. He ~~are~~ ^{is} preparing R. Stein is preparing to collect GW levels and sample ORC wells.
- 845 Photo 1 of R. Stein recording GW level at ORC PZ 5, facing S.
- 917 Setup @ ORC PZ 7 to begin purging. Begin purging w/ peristaltic pump.
- 922 Photo 2 of R. Stein recording environmental parameters. Photo taken facing N at ORC PZ 7.
- 953 Photo 3 of R. Stein collecting GW sample from ORC PZ 7.
- 1005 R. Stein returns to van to decontaminate equipment.
- 1015 Begin purging ORC PZ 8.
- 1025 Photo 4 of R. Stein recording environmental parameters at ORC PZ 8.

J.B. 4/25/00

4/25/00 J.B.

(33)

- 1042 Collect GW sample from ORC PZ 8. Photo 5 of R. Stein collecting GW sample from ORC PZ 8.
- 1050 R. Stein decontaminate pump.
- 1057 Begin purging ORC PZ 6.
- 1105 Photo 6 of R. Stein recording environmental parameters at ORC PZ 6.
- 1115 Collect GW sample from ORC PZ 6. Photo 7 of R. Stein collecting GW sample from ORC PZ 6.
- 1125 R. Stein decontaminate pump.
- 1152 Begin purging ORC PZ 5.
- 1200 Photo 8 of R. Stein recording environmental parameters facing SW at ORC PZ 5.
- 1212 Photo 9 of R. Stein collecting GW sample from ORC PZ 5.
- 1230 Off-site for lunch.
- 1300 return to site.
- 1340 Recording water levels in S ORC study area.
- 1410 Setup @ ORC PZ 1 and begin purging.
- 1420 Photo 10 of R. Stein recording environmental parameters.

J.B.

(31) 4/25/00 J. Bm

- 1437 R. Stein collects Gw sample from ORC PZ1.
- 1440 Photo 11 of R. Stein collecting Gw sample from ORC PZ1.
- 1445 R. Stein deconning pump.
- 1500 Setup @ ORC PZ3 and begin purging well.
- 1505 Photo 12 of R. Stein recording environmental parameters at ORC PZ3 facing W.
- 1530 Collect Gw sample from ORC PZ3.
- 1538 Photo 13 of R. Stein collecting Gw sample at ORC PZ3.
- 1540 R. Stein returns to van to decon the pump.
- 1545 Setup @ ORC PZ4 and begin purging.
- 1550 Photo 14 of R. Stein recording environmental parameters at ORC PZ4 facing N.
- 1603 Collect Gw sample from ORC PZ4.
- Photo 15 of R. Stein collecting Gw sample from ORC PZ4.

J. Bm 4/25/00

4/25/00 J. Bm

(35)

- 1610 Photos 16 + 17 of R. Stein deconning peristaltic pump.
- 1615 Setup @ ORC PZ2 and begin purging.
- 1620 Photo 18 of R. Stein recording environmental parameters at ORC PZ2.
- 1642 Collect Gw sample from ORC PZ2.
- Photo 19 of R. Stein collecting Gw sample at ORC PZ2.
- Each well was secured following sample collection. Sample collection commenced following 3 successive readings w/in 10' of each other.
- 1650 Return to van to decon equipment and collect field blank.
- 1700 J. Basso off-site for Chicago.

J. Bm
4/25/00

⑤

Check

06/05/2000

9:00

Rudy ARRIVED ON SITE, ~~WATER~~, Temp Low 50's
OVERCAST, RAIN, WINDY.

Activities, Sample ORC for INDICATOR
PARAMETERS

9:15

Direct Sampling Equipment @ WATER TREATMENT
Building.

10:00

Move to NORTH WELL ~~PZ 7~~ NORTH OF
THE AOC Facility.

10:20

Rudy STEIN MEASURES DEPTH TO WATER @
PZ 7. SET UP TO SAMPLE.

10:28

Rudy STEIN IS TAKING WATER PARAMETERS
WITH A HORIBA LB-22. @ PZ 7.

ALL DISCHARGE WATER IS BEING CONTAINED
FOR DISPOSAL @ WTP.

10:49

Picture of Pond FACING NORTH @ PZ 7

OF Rudy Stein filling a VOA for indicated

PARAMETERS OF ~~WTP~~

FINAL PARAMETERS

pH CONC TURS DO Temp ORP GAL
6.78 0.11 -5 2.5 10.8 96 9

10:58

Rudy IS DECONING Pump Equipment FOR
Next well.

11:02

DTW @ 3.29 ft @ PZ 6

Setting up Sampling Equipment
Filling out

⑤

Check 06/05/2000

11:22 pH CONC TURS DO Temp ORP GAL
6.82 0.10 3 5.5 11.3 10.4 7
FINAL PARAMETERS @ PZ 6

